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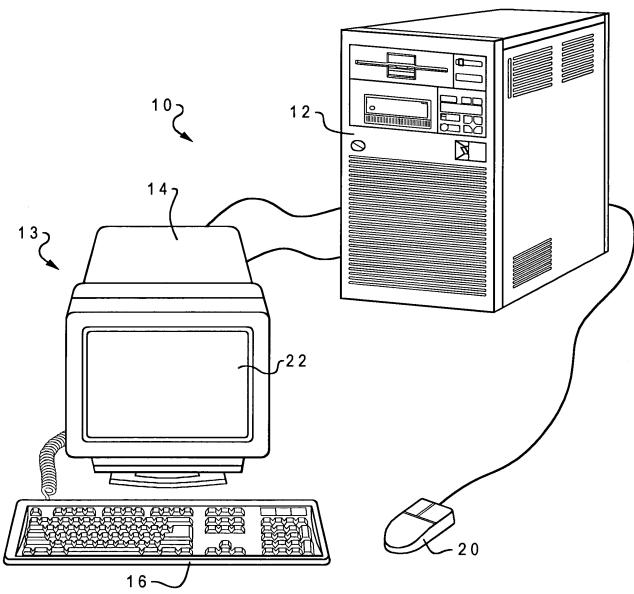
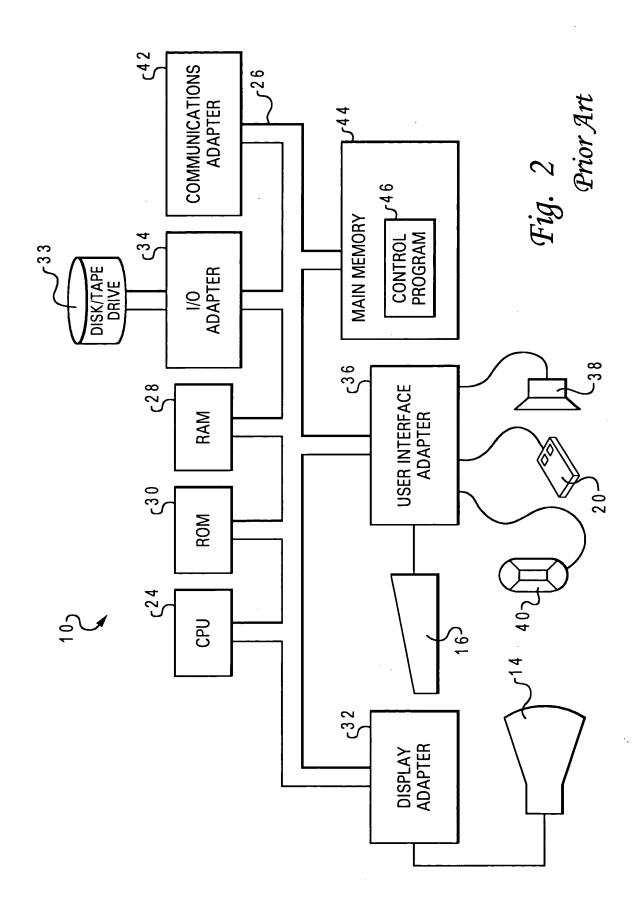


Fig. 1 Prior Art

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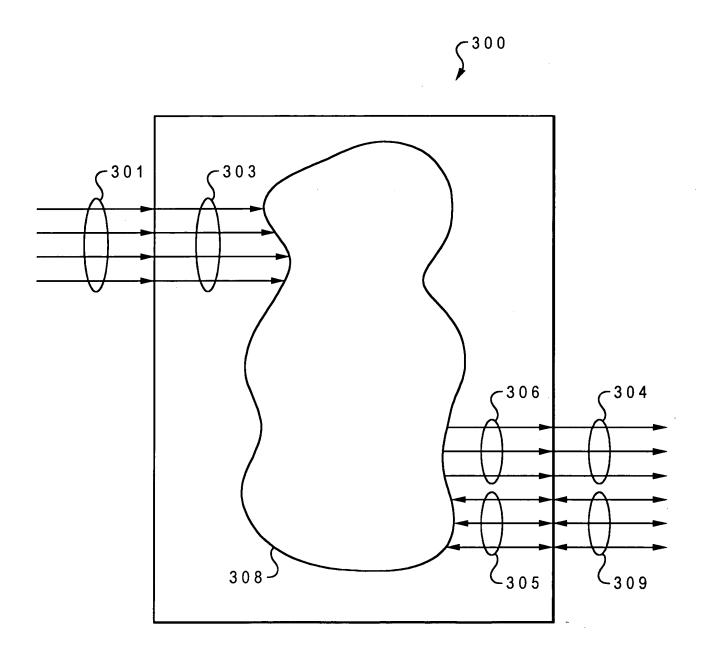
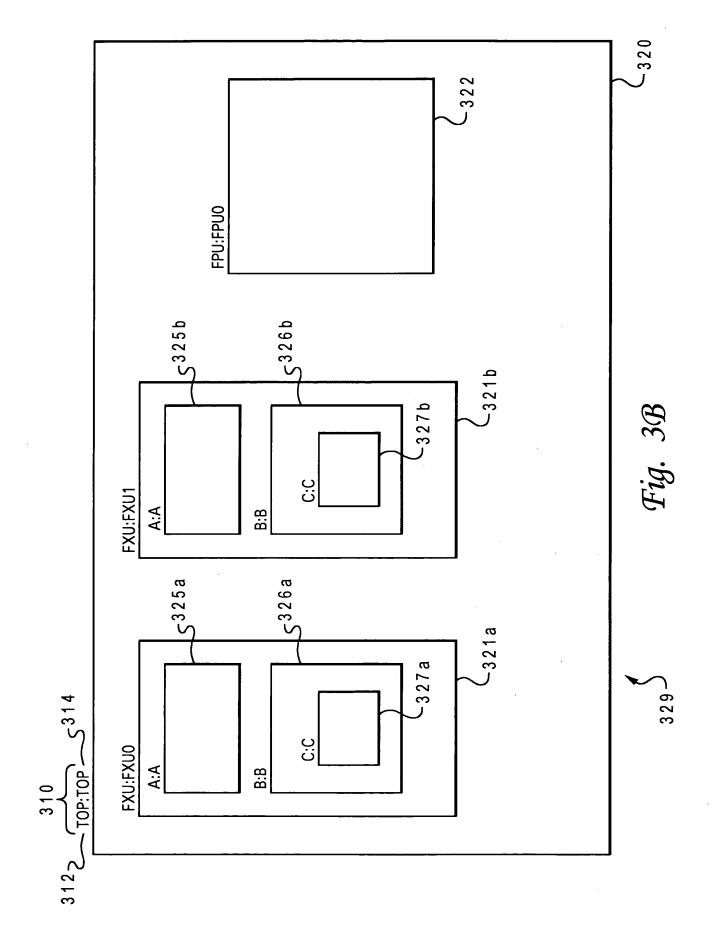
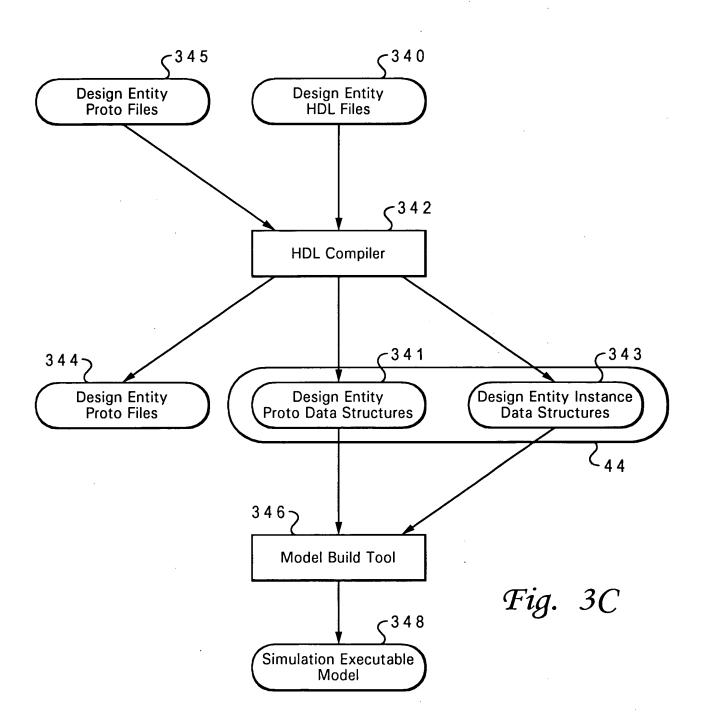
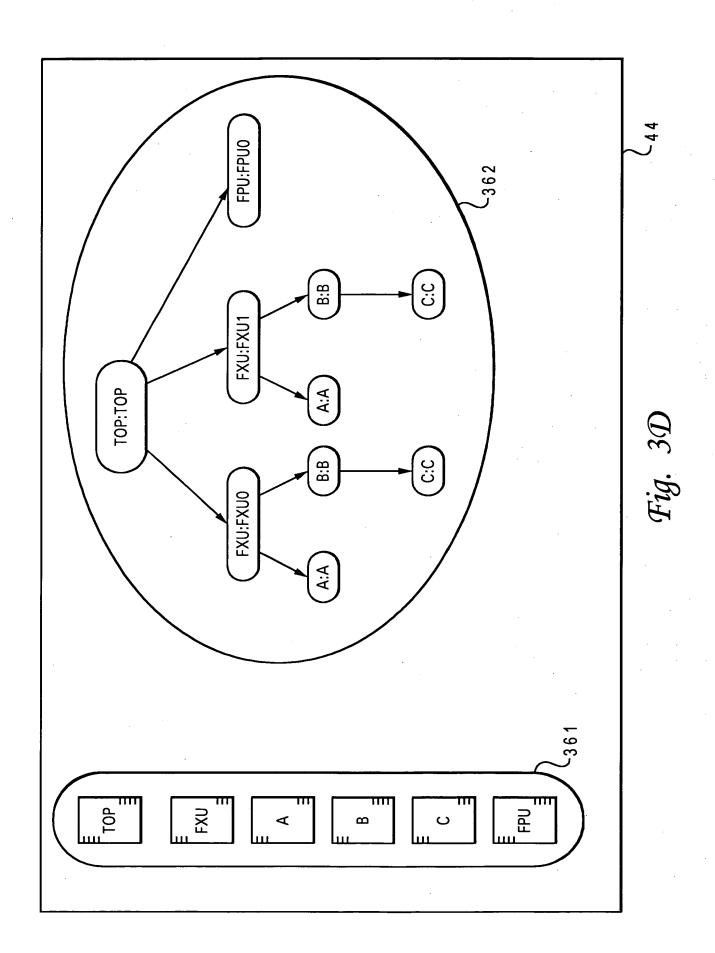


Fig. 3A

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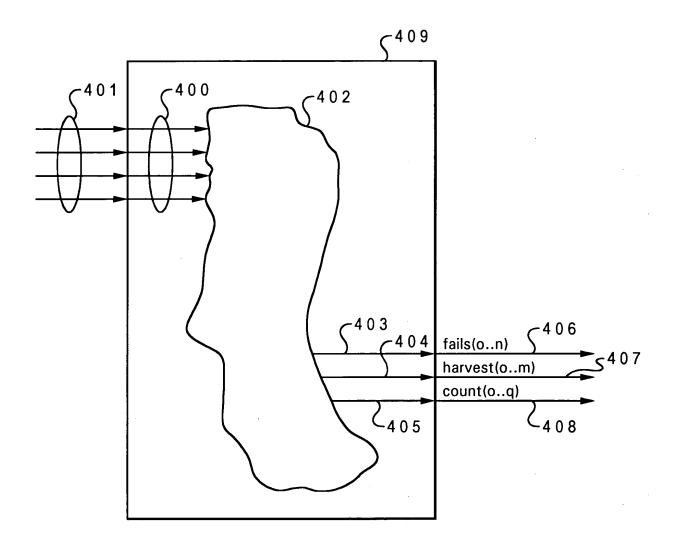
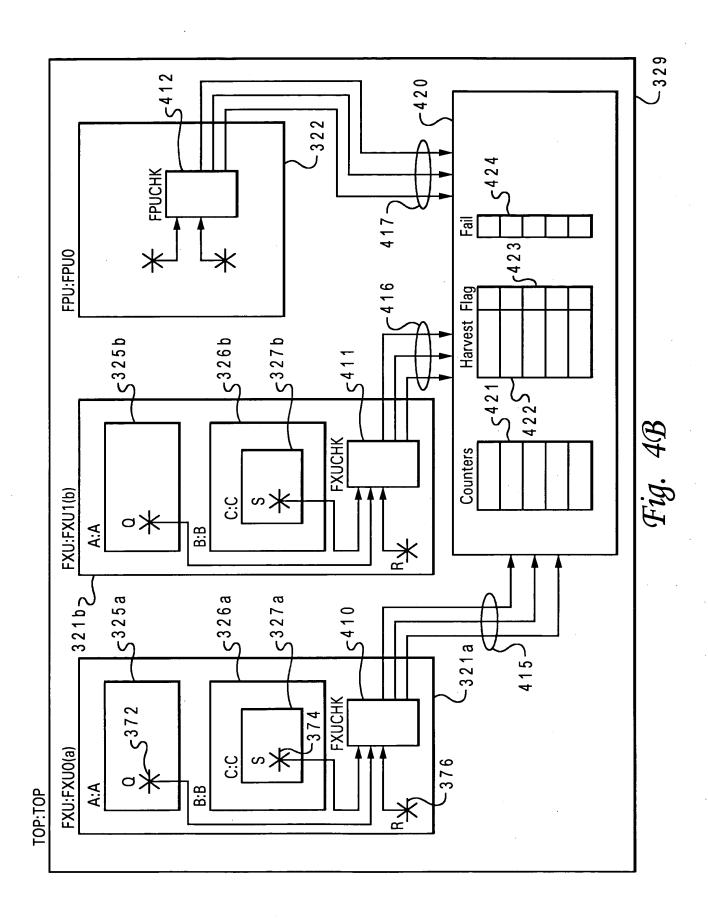


Fig. 4A

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```
ENTITY FXUCHK IS
                                                             S_IN : IN std_ulogic;
Q_IN : IN std_ulogic;
R_IN : IN std_ulogic;
clock : IN std_ulogic;
fails : OUT std_ulogic_vector(0 to 1);
counts : OUT std_ulogic_vector(0 to 2);
harvests : OUT std_ulogic_vector(0 to 1);
                                     PORT(
                  --!! BEGIN
--!! Design Entity: FXU;
453 \begin{cases} --!! \text{ inputs} \\ --!! \text{ S_IN} &=> & \text{B.C.S;} \\ --!! \text{ Q_IN} &=> & \text{A.Q;} \\ --!! \text{ R_IN} &=> & \text{R;} \\ --!! \text{ CLOCK} &=> & \text{clock;} \\ --!! \text{ End Inputs} \end{cases}
4 5 4 

--!! Fail Outputs;
--!! 0 : "Fail message for failure event 0";
--!! 1 : "Fail message for failure event 1";
--!! End Fail Outputs;
                                                                                                                                                                                                                           440
                                                                                                                                               -451
455 

--!! Count Outputs;

--!! 0: <event0> clock;

--!! 1: <event1> clock;

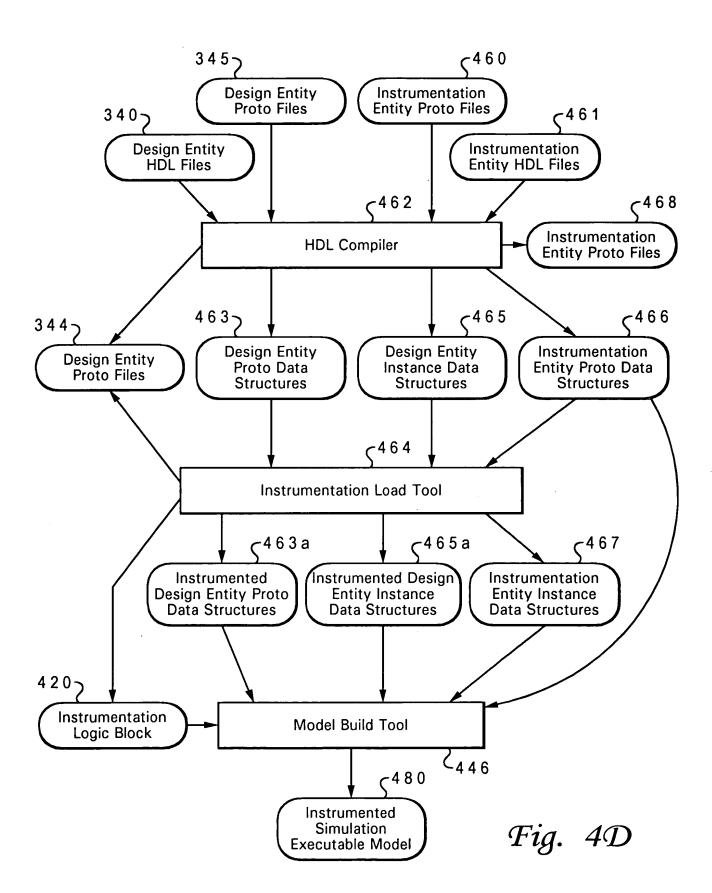
--!! 2: <event2> clock;

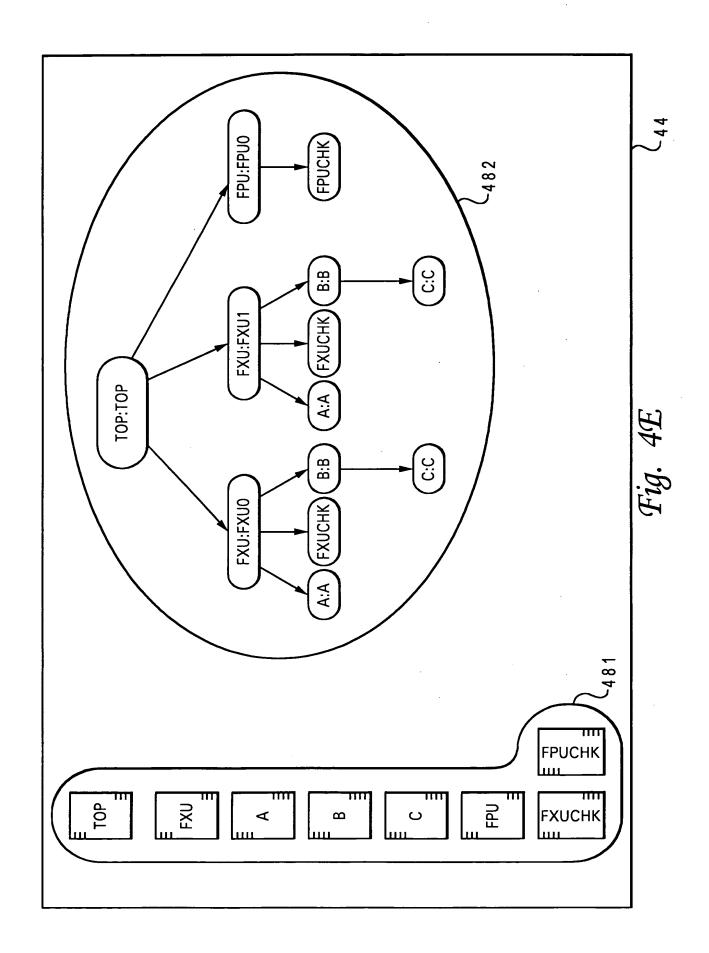
--!! End Count Outputs;
4 5 6 

--!! Harvest Outputs;
--!! 0 : "Message for harvest event 0";
--!! 1 : "Message for harvest event 1";
--!! End Harvest Outputs;
457 ← --!! End;
                       ARCHITECTURE example of FXUCHK IS
                       BEGIN
                                    ... HDL code for entity body section ... > 458
                       END;
```

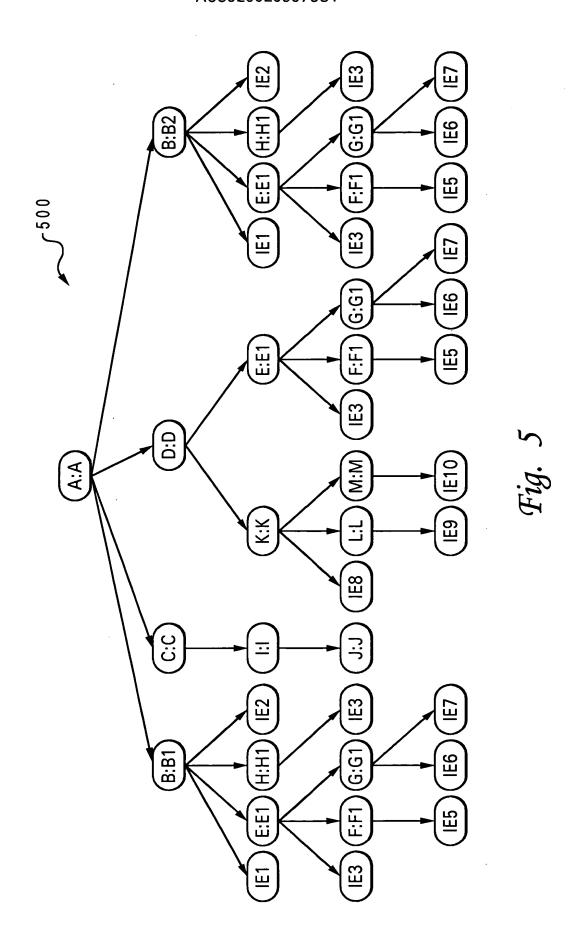
Fig. 40

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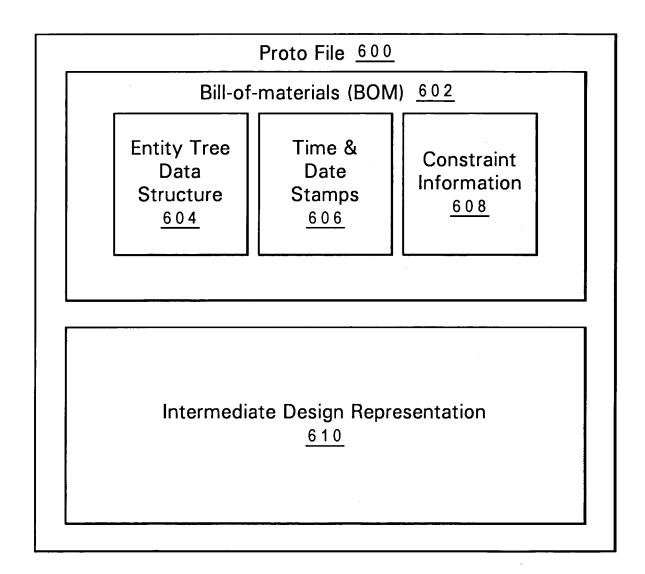


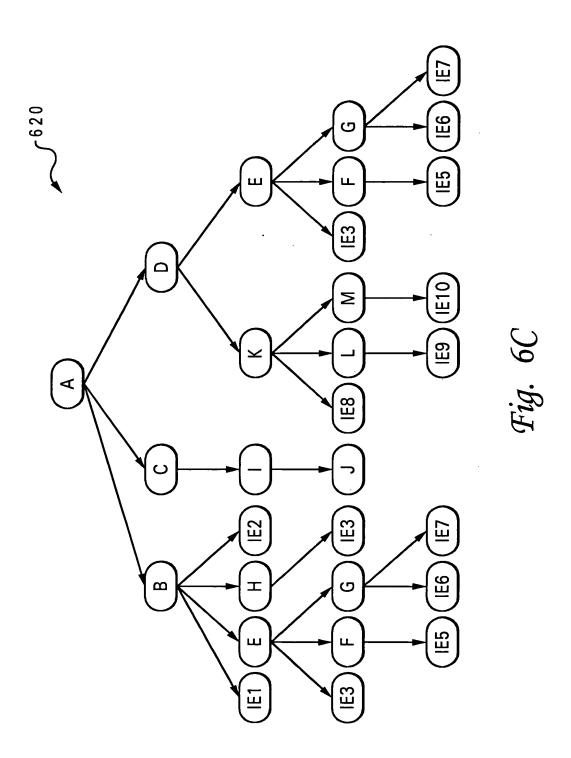
Fig. 6A

09	ITY SELECTED IEs					{IE3}	{IE5}	{IE6}, {IE7}						
	ENTITY	A	В	ပ	D	E	L.	G	Н	ſ	K	7	Σ	

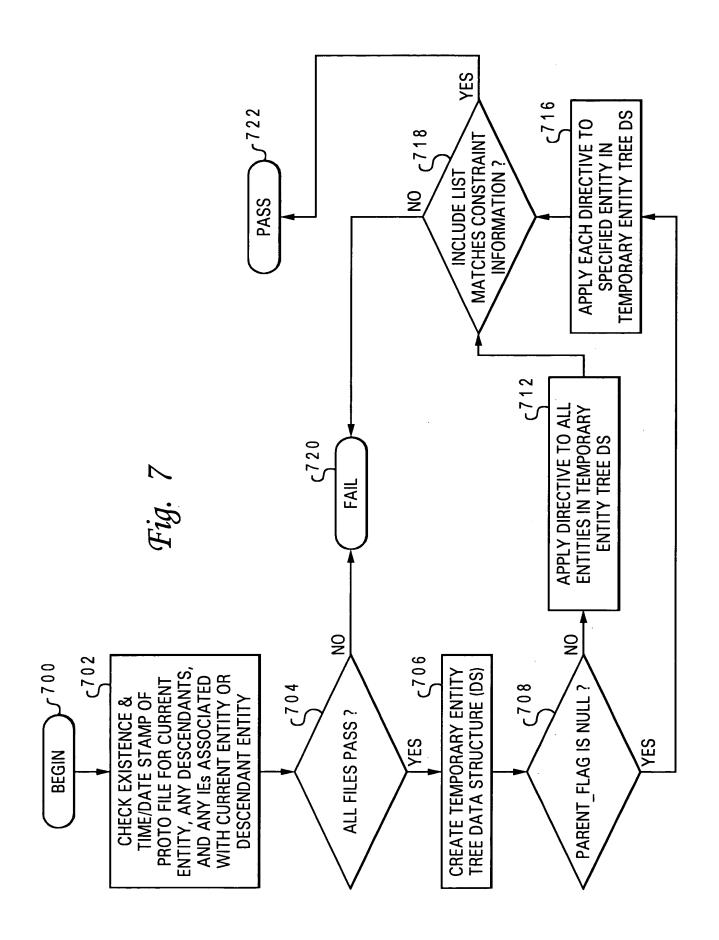
Fig. 6D

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ENTITY	DESCENDANTS
A	B, C, D
В	E, H, {IE1}, {IE2}
3	
a	К, Е
3	F, G, {IE3}
ქ	{IE5}
9	{IE6}, {IE7}
Н	{IE4}
	J
ſ	
Х	L, M, {IE8}
7	{IE9}
Δ	{IE10}



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